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Abstract of the Disclosure

Medical devices such as medical containers can be formed of glass and annealed which produces a clean device having a low bio-burden, or formed by plastic molding which produces a clean device. The clean devices are immediately transferred to a controlled environment such as a clean room or localized area to avoid the need to maintain cleanliness levels in an entire room. Syringe tip closures can be introduced into the housing assembly, where syringe barrels and tip closures are cleaned with filtered ionized air and the tip closures are coupled to the barrels. The syringe barrels can be filled with a substance and a closure member attached. While still in the housing assembly the syringe barrels can be formed into an array and placed in a clean outer container, which is then closed and sealed.

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